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## NOTICE OF ALLOWANCE AND FEE(S) DUE

28523 7590 04/07/2011

PFIZER INC.  
PATENT DEPARTMENT  
Bld 114 M/S 9114  
EASTERN POINT ROAD  
GROTON, CT 06340

EXAMINER

GOON, SCARLETT Y

ART UNIT

PAPER NUMBER

1623

DATE MAILED: 04/07/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,948	05/22/2006	Tomoki Kato	PC26223A	9541

TITLE OF INVENTION: QUINOLONECARBOXYLIC ACID COMPOUNDS HAVING 5-HT4 RECEPTOR AGONISTIC ACTIVITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/07/2011

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

**HOW TO REPLY TO THIS NOTICE:****I. Review the SMALL ENTITY status shown above.**

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

**II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.**

**III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.**

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

## PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to:** **Mail Stop ISSUE FEE**  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

28523      7590      04/07/2011

**PFIZER INC.**  
**PATENT DEPARTMENT**  
**Bld 114 M/S 9114**  
**EASTERN POINT ROAD**  
**GROTON, CT 06340**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

### **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,948	05/22/2006	Tomoki Kato	PC26223A	9541

TITLE OF INVENTION: QUINOLONECARBOXYLIC ACID COMPOUNDS HAVING 5-HT4 RECEPTOR AGONISTIC ACTIVITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/07/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
GOON, SCARLETT Y	1623	546-112000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev.03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are submitted:

- Issue Fee  
 Publication Fee (No small entity discount permitted)  
 Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/595,948	05/22/2006	Tomoki Kato	PC26223A	9541
28523	7590	04/07/2011	<b>EXAMINER</b>	
<b>PFIZER INC.</b> PATENT DEPARTMENT Bld 114 M/S 9114 EASTERN POINT ROAD GROTON, CT 06340				GOON, SCARLETT Y
ART UNIT		PAPER NUMBER		
		1623		
DATE MAILED: 04/07/2011				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 679 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 679 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## **Privacy Act Statement**

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/595,948	KATO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	SCARLETT GOON	1623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 23 June 2010.
2.  The allowed claim(s) is/are 16, 17, 23 and 29.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All      b)  Some\*      c)  None      of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 31 August 2006
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

/SCARLETT GOON/  
Examiner, Art Unit 1623

/SHAOJIA ANNA JIANG/  
Supervisory Patent Examiner, Art Unit 1623

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

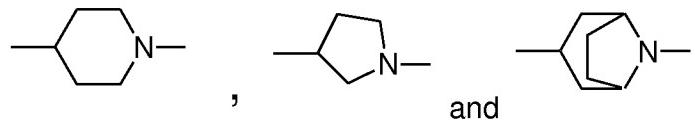
On 21 March 2011, a proposed amendment in condition for allowance was discussed with Mr. Richard V. Zanzalari, Applicants' attorney, in a telephone interview. Authorization for this examiner's amendment was given in a telephone interview with Mr. Richard V. Zanzalari on 22 March 2011.

The application has been amended as follows:

- Claims 16, 23 and 29 have been amended, as listed below.
- Note: For those claims that are neither amended nor canceled as indicated in this Examiner's Amendment, see the amendment filed on 23 June 2010.

16. (Currently amended) The compound or its pharmaceutically acceptable salt of claim 29, wherein:

Het represents a heterocyclic group selected from the group consisting of



Art Unit: 1623

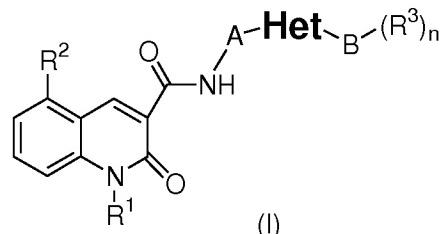
said heterocyclic group being unsubstituted or substituted by 1 to 3 substituents independently selected from the group consisting of substituents  $\alpha^1$ .

23. (Currently amended) A compound selected from the group consisting of:

~~N-({1-[{(cis-1,4-dihydroxycyclohexyl)methyl]piperidin-4-yl}methyl)-1-isopropyl-5-methyl-2-oxo-1,2-dihydroquinoline-3-carboxamide ethanedioate; N-({1-[(cis-1,4-dihydroxycyclohexyl)methyl]piperidin-4-yl}methyl)-1-isopropyl-5-methyl-2-oxo-1,2-dihydroquinoline-3-carboxamide ethanedioate; and~~

~~N-({1-[(trans-1,4-dihydroxycyclohexyl)methyl]piperidin-4-yl}methyl)-1-isopropyl-5-methyl-2-oxo-1,2-dihydroquinoline-3-carboxamide ethanedioate; or a pharmaceutically acceptable salt thereof.~~

29. (Currently amended) A compound of the formula (I):



wherein

Het represents a heterocyclic group having one nitrogen atom, to which B binds directly to said nitrogen atom, and from 4 to 7 carbon atoms, and said heterocyclic group being unsubstituted or substituted by 1 to 4 substituents independently selected from the group consisting of substituents  $\alpha^1$ ;

A represents an alkylene group having from 1 to 4 carbon atoms;

B represents a methylene group;

R<sup>1</sup> represents an isopropyl group, an n-propyl group or a cyclopentyl group;

R<sup>2</sup> represents a methyl group;

R<sup>3</sup> independently represents ~~1,4 dihydroxycyclohexyl~~ 1,4-dihydroxycyclohexyl or  
~~hydroxytetrahydropyranyl~~: hydroxytetrahydropyranyl;

said substituents α<sup>1</sup> are independently selected from the group consisting of a hydroxyl group an amino group; and

n is 1;

or a pharmaceutically acceptable salt thereof.

## **DETAILED ACTION**

This Office Action is in response to Applicants' Amendment and Remarks filed on 23 June 2010 in which claims 1-15, 18-22 and 24-28 were cancelled, claims 16, 17 and 23 are amended to change the breadth and scope of the claims, and new claim 29 is added.

In view of the Examiner's amendment above, claims 16, 17, 23 and 29 are found to be allowable.

### ***Information Disclosure Statement***

The IDS dated 31 August 2006, previously considered, has been amended. The non-patent literature reference to the English language abstract of WO 96/05166 was amended to indicate the date of publication in order to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609.

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: The instantly claimed compounds, as recited in the instant claims, are not seen to be taught or fairly suggested in the prior art, as discussed below.

Applicants' arguments, filed 23 June 2010, with respect to the rejection of claims 15-21, 24 and 25 made under 35 USC § 103(a) as being unpatentable over U.S. Patent No. 6,951,867 B2 to Katsu *et al.*, in view of Suzuki *et al.*, have been fully considered

and are persuasive because the combined teachings of the prior art do not disclose, or fairly suggest, the compounds of formula (I), as recited in the instant claim amendments.

Applicants' arguments, filed 23 June 2010, with respect to the rejection of claims 15-20, 24 and 25 made under 35 USC § 103(a) as being unpatentable over JP 09-194374 to Ouchi *et al.*, in view of EP 0382687 to Micheletti *et al.*, have been fully considered and are persuasive because the combined teachings of the prior art do not disclose, or fairly suggest, the compounds of formula (I), as recited in the instant claim amendments.

In view of the cancellation of claims 1-15, 18-22 and 24-28, all rejections made with respect to claims 1-15, 18-22 and 24-28 in the previous Office Action are withdrawn.

The instantly claimed compounds are distinguished from those of the closest prior art, U.S. Patent No. 6,951,867 B2 to Katsu *et al.*, in view of Suzuki *et al.*, in that the prior art does not teach, or fairly suggest, compounds of formula (I) wherein R<sup>3</sup> is 1,4-dihydroxycyclohexyl or hydroxytetrahydropyranyl. The closest structures to that instantly claimed for R<sup>3</sup> are cycloalkyl groups having from 3 to 8 carbon atoms, or a heterocyclic group such as tetrahydrofuranyl, as disclosed in the Katsu '867 patent. One of ordinary skill in the art would clearly recognize that the differences of adding hydroxyl substituents on the cyclohexyl group and the tetrahydropyranyl group, as recited in the instantly claimed compounds are significant and not non-obvious variants,

particularly since such modifications would be expected to alter the activity of the compounds due to their bulk and polarity.

Therefore, the claimed compounds of formula (I), as recited in the instant claims, are seen to be novel and non-obvious over the teachings of the prior art.

Exemplary compounds of formula (I) are disclosed in the instant specification. Additionally, methods for the synthesis of compounds of formula (I), such as *N*-(*{1-[*(*cis*-1,4-dihydroxycyclohexyl)methyl]piperidin-4-yl}methyl)-1-isopropyl-5-methyl-2-oxo-1,2-dihydroquinoline-3-carboxamide ethanedioate and *N*-(*{1-[*(*trans*-1,4-dihydroxycyclohexyl)methyl]piperidin-4-yl}methyl)-1-isopropyl-5-methyl-2-oxo-1,2-dihydroquinoline-3-carboxamide ethanedioate, including characterization of these compounds by  $^1\text{H-NMR}$ , are disclosed in the instant Specification. Hence, the instantly claimed compounds of formula (I), as recited in the instant claims, are enabled and have sufficient written description in the Specification.

### ***Conclusion***

Accordingly, Applicants' amendment filed on 23 June 2010 and the Examiner's Amendment above is sufficient to place the application in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SCARLETT GOON whose telephone number is (571)270-5241. The examiner can normally be reached on Mon - Thu 7:00 am - 4 pm and every other Fri 7:00 am - 12 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SHAOJIA ANNA JIANG/  
Supervisory Patent Examiner, Art Unit 1623

/SCARLETT GOON/  
Examiner, Art Unit 1623